

09/430642

## ABSTRACT OF THE DISCLOSURE

Embedded, coupled, shaped waveguide resonators having  
conductive walls sandwiched between two fired green tape  
stacks, said conductive walls having apertures therein whose  
size and location determine the degree of coupling. These  
waveguides are made by forming openings in a first green tape  
stack, defining walls and apertures therein, mounting a second  
green tape stack having a conductive layer thereon thereover  
and firing the assembly. E-plane probes are inserted in  
openings in the second green tape stack and connected to  
microstrip transmission lines on an external surface of this  
green tape stack.